

HATCH INNER WINDOW ASSEMBLY R&R

OBJECTIVE:

Remove and replace Hatch Inner Window Assembly.

LOCATION:

Installed: U.S. Common Hatch IVA side

Stowed: √Maintenance Database

DURATION:

20 minutes

PARTS:

Hatch Inner Window Assembly (P/N 683-13076-1)

MATERIALS:

Dry Wipes

Deionized Water

TOOLS REQUIRED:

Kit C:

7/16" Socket, 3/8" Drive

Kit D:

3/16" Hex Head, 3/8" Drive

Kit E:

Ratchet 3/8" Drive

Kit G:

(30-200 in-lbs) Trq Wrench, 3/8" Drive

IVA Tool Box, Lid #1:

Magnifying Glass 7x

REFERENCED PROCEDURE(S):

None

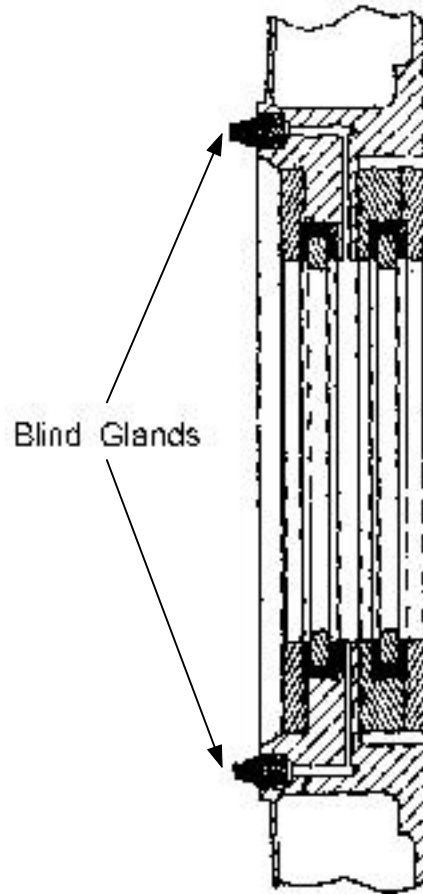


Figure 1.- Common Hatch Window.

WARNING

1. To ensure crewmembers have immediate ingress/egress between modules in case of emergency, hatch latches should not be engaged.
2. Failure to equalize pressure between inner and outer windows may prevent removal of failed inner pane.

NOTE

Hatch plate assembly contains 2 blind glands, only one needs to be removed to equalize pressure.

REMOVE

1. Remove nut securing blind gland to hatch plate assembly (Ratchet 3/8" Drive, 7/16" Socket).
Tm pry stow.
2. Place piece of Tape on Hatch under "TEST" to mark alignment for replacement window.

NOTE

1. Thirty (30) seconds must pass for pressure to equalize between inner and outer hatch windows.
2. Failed inner window ORU kit contains lubricated seals. Avoid smearing lubricant on hands, glass, or hardware.

3. Loosen fasteners (ten) securing failed hatch inner window ORU kit to hatch plate assembly (Ratchet 3/8", 3/16" Hex head).
Tm pry stow.

NOTE

Hatch inner window ORU kit consists of inner window assembly (1), window pane (1), window pane seal (2), and bumper (1). All parts of failed window ORU kit are removed from hatch plate assembly together.

4. Clean hatch plate window sealing surface (Dry wipes, Deionized Water).
5. Dry hatch plate window sealing surface (Dry wipe).
6. Inspect hatch plate assembly window area for foreign material on surface (Magnifying Glass 7x).
7. If there is no foreign material or visible scratches on surface
Continue procedure.
If there is foreign material or visible scratches on surface
Reclean hatch plate window sealing surface.

REPLACE

NOTE

Replacement inner window ORU kit contains lubricated seals. Avoid smearing lubricant on hands, glass, or hardware.

8. Position replacement hatch inner window ORU kit hatch plate assembly by ensuring "TEST" is aligned with tape marker.
9. Align replacement hatch inner window ORU kit fasteners (ten) with holes (ten) in hatch plate assembly.
10. Visually inspect replacement hatch inner window ORU kit to ensure it is level.

11. If it is level, continue procedure.
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If it is not level, reposition window and continue procedure.

NOTE

Sequence for fastening captive fasteners (ten) will start at top center right, moving to bottom center left and continuing in star pattern until all captive fasteners (ten) are started.

12. Tighten fasteners (ten) securing replacement hatch inner window ORU kit to hatch plate assembly (Ratchet 3/8" Drive, 3/16" Hex Head).
13. Visually inspect replacement hatch inner window ORU kit to ensure it is properly seated.
14. If kit properly seated, go to step 17 of this procedure.
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If kit not properly seated, continue procedure.
15. Loosen captive fasteners (10) securing hatch inner window ORU kit to hatch plate assembly (Ratchet 3/8" Drive, 3/16" Hex Head).
16. Adjust inner window ORU kit until it is fully seated.
17. Torque captive fasteners (ten) securing replacement hatch inner window ORU kit to hatch plate assembly 112 ± 9 in-lbs (30-200 in-lbs Trq Wrench, 3/16" Hex Head).
18. Visually inspect replacement hatch inner window ORU kit to ensure it is properly seated.
19. If not properly seated, go to step 15 of this procedure.
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If properly seated, continue procedure.
20. Tighten nut over blind gland until blind gland is seated with no free movement (Ratchet 3/8" Drive, 7/16" Socket).
21. Tighten nut over blind gland an additional eighth of a turn (Ratchet 3/8" Drive, 7/16" Socket).

POST MAINTENANCE

16. Stow failed Inner Window, tools, equipment.
17. Update Maintenance Database.